

Appendix C: Pottawatomie Creek discharge (kcfs) and arrival time (hr) to reach the railroad closure invert\* for different stage combination at Lane and Osawatomie gages

MDC Lane	Stage (ft)	23.0	28.0	36.0	40.0	41.5	43.0	46.0	51.0
Stage (ft)	Elevation (ft)	839.8	844.8	852.8	856.8	858.3	859.8	862.8	867.8
18.0	858.4						0.0*** (0 kcfs) (0:00)	3.5*** (0 kcfs) (0:00)	8.8*** (0 kcfs) (0:00)
28.0	868.4					0.0 (27 kcfs) (5:30)			
29.8	870.2				0.0 (36 kcfs) (6:50)				
31.3	871.7			0.0 (44 kcfs) (8:10)					
31.6	872.0	0.0** (46 kcfs) (8:25)							
No flooding at the railroad closure			Water within 2.0 ft below railroad closure invert		Water at railroad closure invert			Water above railroad closure invert	

\*Railroad closure invert elevation of 858.7 ft NAVD88 is stage 0.0 ft.

\*\*Under conditions of high flow at Lane and low stage at Osawatomie, normal depth was used as downstream boundary condition.

\*\*\*Under conditions of low flow at Lane and high stage at Osawatomie, the stage at Lane would be higher than expect. The water surface elevation at the flood start time was reported for these scenarios.